



## UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
 United States Patent and Trademark Office  
 Address: COMMISSIONER FOR PATENTS  
 P.O. Box 1450  
 Alexandria, Virginia 22313-1450  
 www.uspto.gov



Bib Data Sheet

CONFIRMATION NO. 5037

|  |   |                               |   |  |                                |
|--|---|-------------------------------|---|--|--------------------------------|
| <b>SERIAL NUMBER</b><br>10/750,169   | <b>FILING OR 371(c) DATE</b><br>12/31/2003<br><b>RULE</b>   | <b>CLASS</b><br>375           | <b>GROUP ART UNIT</b><br>2611   | <b>ATTORNEY DOCKET NO.</b><br>884.A49US1 |                                |
| <b>APPLICANTS</b><br>John S. Sadowsky, Mesa, AZ;<br><b>** CONTINUING DATA *****</b><br>N/A <i>cr</i><br><b>** FOREIGN APPLICATIONS *****</b><br>N/A <i>cr</i><br><b>IF REQUIRED, FOREIGN FILING LICENSE GRANTED</b><br>** 05/10/2004   |   |                               |   |  |                                |
| Foreign Priority claimed <input type="checkbox"/> yes <input checked="" type="checkbox"/> no<br>35 USC 119 (a-d) conditions <input type="checkbox"/> yes <input checked="" type="checkbox"/> no <input type="checkbox"/> Met after<br>met Allowance<br>Verified and Acknowledged <i>[Signature]</i> <i>[Initials]</i><br>Examiner's Signature Initials |   | <b>STATE OR COUNTRY</b><br>AZ | <b>SHEETS DRAWING</b><br>8  | <b>TOTAL CLAIMS</b><br>30                | <b>INDEPENDENT CLAIMS</b><br>6 |
| <b>ADDRESS</b><br>21186  |   |                               |   |  |                                |
| <b>TITLE</b><br>Symbol de-mapping methods in multiple-input multiple-output systems  |   |                               |   |  |                                |
| <b>FILING FEE RECEIVED</b><br>1338   | FEES: Authority has been given in Paper<br>No. _____ to charge/credit DEPOSIT ACCOUNT<br>No. _____ for following: |                               | <input type="checkbox"/> All Fees<br><input type="checkbox"/> 1.16 Fees ( Filing )<br><input type="checkbox"/> 1.17 Fees ( Processing Ext. of time )<br><input type="checkbox"/> 1.18 Fees ( Issue )<br><input type="checkbox"/> Other _____<br><input type="checkbox"/> Credit |  |                                |